MYRMECIA

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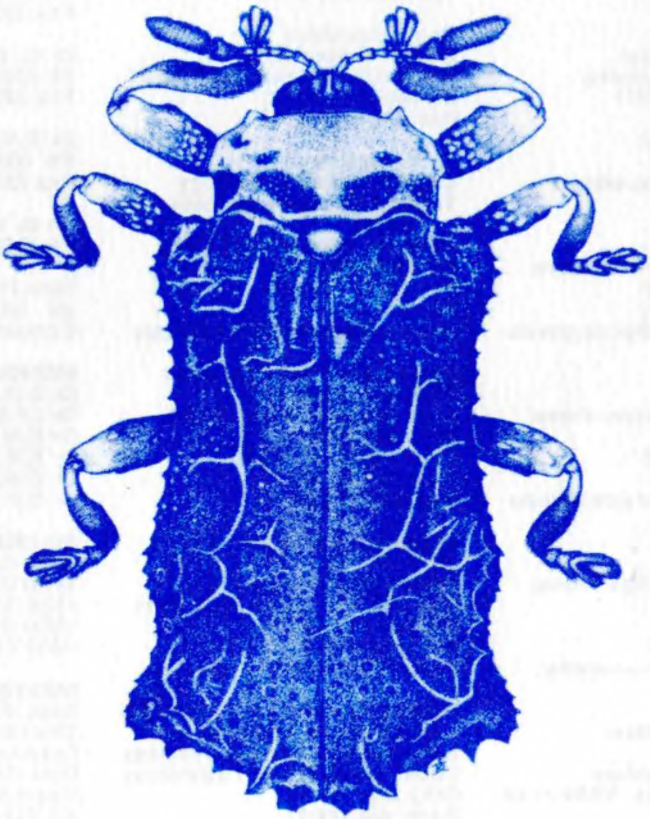

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MACKERRAS MEDALLISTS

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1986 Dr R.W. Sutherst
1988 Dr T.R. New
1990 Dr R.A.I. Drew
1992 Dr E.S. Nielsen

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THE COVER

The cover features *Octotoma championi* [Chrysomelidae], a leaf-feeding beetle imported to Australia as a biological control agent of lantana. The illustration, drawn by **Debbie Kent** of NSW State Forests, won 2nd place in the 1995 AES illustration competition at Tamworth.

MYRMECIA

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These rates apply to camera-ready copy supplied by the advertiser. Where this is not supplied, an additional charge may be made for the layout.

In addition, loose inserts and pamphlets supplied by the advertiser will be included in a mailout for $100 per item. The items should be of a size which will not project beyond the pages of *Myrmecia*.

NOTICE

Statements made in *Myrmecia* do not necessarily represent the views of the Australian Entomological Society. Items printed herein should not be reproduced without permission of the author of the material.

COPY DEADLINE FOR NEXT ISSUE

Material for publication in the May 1996 issue of *Myrmecia* should be in the hands of the Editor at the address below by **Friday 26 April 1996**. Submission in ASCII or uuencoded format to the editor's email address (fletchm@agric.nsw.gov.au) is preferred but submission on IBM-compatible floppy disk in a major word processing format, or by fax, letter or carrier pigeon to the address below is acceptable.

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Death Notice

Elaine Brough, President of the Entomological Society of Queensland, has died after a short illness. Elaine was a well-respected colleague employed by Queensland Department of Primary Industries and the CRC for Tropical Pest Management. A full obituary will be included in the May issue of *Myrmecia*.

EXECUTIVE REPORT

MEETINGS

The Core Executive met on 7 December 1995 and 7 January 1996.

NEW MEMBERS

We welcome the following new members to 1996 membership.

Elected 7 December 1995

Ms ME EDWARDS, PO Box 200, Nichols Point, Vic 3501 (Full Member). Megan is a Research Scientist with Agriculture Victoria with interests in the biology and control of pests (including nematodes) in citrus, pistachios and other horticultural crops.

Mrs MJ DE SOUSA MAJER, 18 Catherine St, Subiaco, WA 6008 (as Joint Members: Assoc/Prof JD MAJER and Mrs MJ DE SOUSA MAJER)

Ms RK SCHUMACHER, CSIRO Division of Entomology, GPO Box 1700, ACT 2601 (Full Member). Roslyn is a Technical Officer working on the impact of insects on eucalypts, particularly on herbivore/tree and herbivore/natural enemy interactions. She is also completing a Graduate Diploma in Science at ANU on the impact of parasitoids on autumn gum moth.

Mr KT KOROWI, Ramu Sugar Ltd, PO Box 2183, Lae MP, Papua New Guinea (Full Member). Kaile is a trainee entomologist with interests in insect biology, ecology, and pest management with an emphasis on biological control.

Elected 7 January 1996

Ms KM HART, 108 Twelfth St, Mildura, Vic 3500. (Student Member). Kerryn is a Technical Officer with Agriculture Victoria working on citrus entomology. She has interests in horticultural research, especially entomology.

Resignations from membership

(Received with regret)
Dr IM COOK
Mr EC DAHMS
Ms AJ DAVIS
Mr M NEWTON
Mr RGF PIGOTT

Change of Address, Status or Title

(7 December 1995)

Dr GR ALLEN (correction of postcode to 6907)

AUSTRALIAN ENTOMOLOGICAL SUPPLIES PTY LTD, PO Box 250, Bangalow NSW 2479 (correction of address)

Mr MGN AZAM, Dept of Entomology, University of Queensland, Qld 4072 (ex NSW)

Dr JK BALCIUNAS, USDA Biocontrol of Weeds Quarantine, 800 Buchanan St, Albany, CA. 94710, USA (ex Qld)

Mr J BALDERSON, 3/3 Velacia Place, Queanbeyan, NSW 2620 (ex ACT)

Dr TE BELLAS, 6 Coates Place, Weston, ACT 2611 (ex ACT)

Dr EB BRITTON, 27 Galway Place, Deakin, ACT 2600 (ex ACT)

Ms JA BURCHER, 63 Bayliss St, Toowong, Brisbane, Qld 4066 (ex Qld)

Mr MG CAIRNS (to Full Member)

Mr AJ CAMPBELL, Tropical Fruit Research Station, PO Box 72, Alstonville, NSW 2399 (ex NSW)

Dr GP CLOSS (correction of PO Box to 921)

Dr MW CROSSLAND (request to airmail Journal & News Bulletin)

Prof SA CROSSLEY (from Dr)

Mr MJ CROUCH, MSF 2058, Pallamallawa, NSW 2399 (ex NSW)

Dr IR DADOUR and Ms FA BERLANDIER (to Joint Membership)

Ms KF DAVIES, Div of Botany & Zoology, Australian National University, Canberra, ACT 0200 (ex ACT)

Dr DHD EDWARD, c/o Zoology Dept, The University of Western Australia, Nedlands, WA 6907 (correction of postcode)

ENTOMOLOGY DEPT, AUSTRALIAN MUSEUM, College & William Streets, Sydney South, NSW 2000 (correction of address)

Dr JRJ FRENCH, CSIRO Division of Forest Products, Private Bag 10, Rosebank MDC, Clayton, Vic 3169 (correction of address)

Mr C GOLETSOS (to Full Member)

Drs KLS HARLEY and IW FORNO (correction of Joint Membership)

Dr E HASSAN, The University of Queensland, Gatton Campus, Gatton, Qld 4343 (ex Qld)

Dr TW HOGAN, 10 Glen St, Hawthorn Vic 3122 (ex Vic)

Ms PS HURST, School of Biological Sciences, Flinders University, GPO Box 2100, Adelaide, SA 5001 (correction of address)

Ms R HUWER, Loffelgasse 17, 65207 Wiesbaden, Germany (ex Germany)

Prof RE JONES, Deputy Vice-Chancellor (Science & Engineering), James Cook University of North Queensland, Townsville, Qld 4811 (correction of address)

Dr J KOJIMA, Natural History Laboratory, Faculty of Science, Ibaraki University, Mito 310, Japan (correction of address)

Ms D LACIS, 40 Queensway #10, Framingham, MA 017701-7735, USA (ex SA) (request to airmail Journal & News Bulletin)

Dr LJ LAW (from Mrs, Student to Full Member)

Dr SA LAWSON, Institute of Biological Sciences, University of Tsukuba, Tsukuba, Ibaraki 305, Japan (ex Japan)

Ms RL MACKAY, 18 Aldebaran St, Inala, Qld 4077 (ex Qld)

Dr PJ MARTIN, 19 Henry Lawson Ave, Abbotsford, NSW 2046 (ex NSW)

Mrs L J McLEOD (from Student to Full Member)

Mr BA MELBOURNE, Div of Botany & Zoology, Australian National University, Canberra, ACT 0200 (ex ACT)

Ms M MILES, 32 Laurel St, Horsham, Vic 3401 (ex Qld, to Full Member)

Mr A NEWMAN (from Student to Full Member)

Mr R PATON, Karingal Neville Rd (PO Box 33), Mandurama, NSW 2792 (ex ACT)

Dr RK PENG, Biological Sciences, Faculty of Science, Northern Territory University, Darwin NT 0909 (correction of address)

Dr SK ROBSON, Department of Zoology, James Cook University, Townsville, Qld 4811 (ex USA)

Mr A ROCHESTER, Dept of Entomology, University of Queensland, Qld 4072 (ex NSW)

Ms ML RODGERSON, Department of Biological Sciences, University of Wollongong, Northfields Ave, Wollongong, NSW 2522 (ex NSW)

Assoc/Prof RC RUSSELL (From Dr)

Dr ER SCHMIDT (from Mr)

Dr JP SPRADBERY (correction of company name to XCS Consulting Pty Ltd)

Mr P SULLIVAN, Weed Biological Control Unit, RMB 944, Tamworth NSW 2340 (correction of address)

Mr CR TANN, CSIRO Cotton Research Unit, PO Box 59, Narrabri, NSW 2390 (correction of address)

Dr GS TAYLOR (from Mr)

Dr J TRUEMAN (from Mr)

Mr JW TURNER (from Full to Retired Member)

Dr Q WANG, Department of Plant Science, Massey University, Private Bag 11222, Palmerston, New Zealand (ex USA)

Mr PI WHELAN, Director, Medical Entomology Branch, Territory Health Services, PO Box 40596, Casuarina NT 0811 (correction of address)

(7 January 1996)

Prof AJ BEATTIE, Commonwealth Key Centre for Biodiversity and Bioresources, School of Biological Sciences, Macquarie University, NSW 2109 (correction of address)

Dr GR BROWN (correction of postcode to 0801)

Mr DW BURROWS, Australian Centre for Tropical Freshwater Research, James Cook University of North Queensland, Townsville, Qld 4811 (ex Qld)

Dr AD CLIFT, PO Box 236, Ermington, NSW 2115 (ex NSW)

Mr DF CROSBY (correction of title)

Dr DW DE LITTLE, North Eucalypt Technologies, PO Box 63, Ridgley, Tas 7321 (correction of address)

Mr ML and Mrs GE DILLON, CSIRO Entomology, Cotton Research Unit, PO Box 59, Narrabri, NSW 2390 (correction of title and address)

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Mr NE GRYLLS (correction of post code to 2602)

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Dr WWK HOUSTON, ABRS, PO Box 636, Canberra, ACT 2601 (ex ACT)

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Mr CP MADDEN, Australian Water Quality Centre, SA Water, PMB Salisbury PO, SA 5108 (ex SA)

Ms B MORRIS, 12 Coolibah Crt, Mt Crosby, Qld 4306 (ex Vic)

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Dr K RUNGROJWANICH, School of Agricultural Extension & Cooperatives, Sukothaithammathirat University, Pak Kred, Nonthaburi, Thailand 11120 (ex Thailand)

Dr JE SEYMOUR, Dept of Biology, James Cook University of North Queensland, Townsville, Qld 4811 (ex NSW)

Mr NS SHERWOOD, PO Box 50, "Wilogeche", The Oaks, NSW 2570 (from Student to Full Member, ex NSW,)

Mr J STANLEY, 46 Carlyle St, Seventeen Mile Rocks, Qld 4073 (from Student to Full Member, ex NSW)

Dr RE TEAKLE, 59 Wilty Rd, Moggill, Qld 4070 (ex Qld)

Ms BM WATERHOUSE, PO Box 991, Mareeba, Qld 4880 (ex Qld)

Dr P WILLIAMS, Institute for Horticultural Development, Private Bag 15, South Eastern Mail Centre, Vic 3176 (ex Vic)

Dr RG WINKS, PO Box 5145, Sunshine Coast Mail Centre, Nambour, Qld 4560 (ex ACT)

Address unknown

Mr G BARDEN
Mr MA COLLIER
Miss CL DAY
Dr CE HOELSCHER
Dr PA HOLDSWORTH
Ms K JOHNSON

List of persons no longer members of the Society under Clause 21c of the Constitution

Mr C ADAMSON
Mr RB ALLANSON
Miss JA BERRY
Mr J CASOTTI
Dr GM CLARKE
Miss AA CONDELLO
Mr R DRUEKE
Mr M ELLIS
Dr J HILL
Mr NM HUDSON
Dr L HUGHES
Mrs BM JOHNS
Mrs ES KENTJONOWATI
Mr PFS LIEHNE
Mr AT MILLS
Mr HG PERONA
Mr DM POLLOCK
Mrs S RONDONUWU
Mr ME SPARKS
Mr CJ STAFFORD
Dr AW SWEENEY
Ms A TAYLOR
Mr DD WALLACE
Mr S WILLIAMS
Mr EC WILSON
Mr J ZANG

FROM THE MINUTES OF THE CORE EXECUTIVE

Negotiations with Dr **Rowan Emberson** are continuing over the Joint AES and NZ Entomological Society Conference at Lincoln University, Christchurch, 22-27 August 1996. Venues for the Conference and AGM and Council Meetings have been booked. It was proposed that the AGM be held at 4 pm on 24 August 1996 (see this issue of *Myrmecia* for Provisional Agenda, nomination forms for new Officers and Councillors for 1997, and notices for the 1996 Ian Mackerras Medal, Phil Carne Prize, Research Grants and Insect Illustration and Photographic Competitions).

FASTS has been approached to help AES to obtain funding to assist students to attend the Conference. **David Dall**, **Murray Fletcher** and two other AES members are to assist on a Committee for the Scientific Program. Following discussions with **Max Whitten, Peter Allen** reported that a submission from Brazil to host the Congress in 2000 may be favoured by the Council for the International Congresses of Entomology, as the Congress has not previously been held in South America. It was proposed that AES support a submission from Brazil and that Australia would offer to hold the Congress in the event of Brazil withdrawing its bid.

The AES Patron, The Honourable **Bill Hayden**, AC, has tendered his resignation as Patron of the Society, to take effect on 16 February, 1996. The Honourable **Sir William Deane**, AC KBE, currently Governor-General Designate has been invited to become the new Patron.

Results of the postal ballot for the name of the Journal indicated that most members preferred a change of name. The name *The Australian Journal of Entomology* had the majority of the eligible vote after the distribution of preferences.

Following a request from Dr **Murray Fletcher**, Convenor for the 9th International Auchenorryncha Conference to be held in Sydney in February, 1997, the Core Executive have agreed that AES financially support the Conference ($500.

The AES Operational Manual, being compiled by Dr P Madge is near completion.

An AES Membership Survey has been prepared for distribution to members in this issue of *Myrmecia*. Results of this survey will aid the Executive in planning future directions of the Society. A similar Survey on Employment of Entomologists has been sent to organisations which employ entomologists and will be used by AES to inform members of employment trends and training needs. Furthermore, it may instigate wider public discussion on employment of entomologists in Australia.

The list of Australian Postgraduate Projects, published at least biennially in the News Bulletin is due in 1996. Regional Councillors will be asked to prepare the list at the local level and forward them to the Secretary for collation.

The Core Executive has received a request to nominate an AES member to sit on a Scientific Committee to advise the NSW Minister for the Environment on conservation issues. Correspondence has been forwarded to the AES Conservation Committee for nomination of an AES member.

Discussions with FASTS about benefits of AES Corporate Membership, including an outline of their proposed new fee structure, are continuing.

Peter ALLEN Gary TAYLOR
Vice-President Honorary Secretary

SUBSCRIPTIONS

Would members please note that subscriptions were due on Jan 1 1996. Payment ASAP would be appreciated. Members who still owe 1995 subs will not receive any more copies of *Myrmecia* or the Journal until outstanding subs are paid.

John JENNINGS
Hon. Treasurer

PLEASE NOTE

This issue of *Myrmecia* contains the FIRST and FINAL notices for:

- Call for nominations for the AES 1996 Ian Mackerras Medal for Excellence in Entomology
- Call for submissions for the AES Phil Carne Prize for 1996
- Call for applicants for AES Research Grants for 1996
- Call for entries in the 1996 AES Insect Illustration Competition
- Call for entries in the 1996 AES Insect Photographic Competition

Conservation Committee

Alice Wells has recently completed her term as Convenor of this Committee and I have taken over the position.

The main event in the insect conservation agenda was the holding of the Invertebrate Conservation and Biodiversity conference in Melbourne recently. **Penny Greenslade** has kindly saved me the task of writing a report on this conference by preparing one herself. This appears below. I only need to add that it was a well-attended conference which allowed for some excellent interaction. Hopefully it will lead to many initiatives in relation to invertebrate conservation and biodiversity.

In addition to reporting back to you, I would like to use this position to canvass information from readers of *Myrmecia*. There are two topics on which I am seeking information.

The first relates to the Commonwealth Deferred Forest Assessment process, in which I was invited to participate. During our deliberations we were asked if we knew of instances of invertebrates being dependent on old growth forest. Intuitively, it seems that there must be species or even entire families which are dependent on such environments, but we could not recall any studies where this had been investigated. When talking to a dipterist at the Melbourne conference I learnt that the animals he studied were invariably confined to undisturbed ecosystems. It occurred to me that other taxonomists or ecologists may be aware of instances like this. Therefore, if anyone knows of cases of invertebrates being confined, or at last particularly common, in old growth forest, please let me know. Also, if anyone is aware of any old growth invertebrate studies, either published or unpublished, I would also appreciate being informed. Hopefully, if a good response is obtained, the information may be compiled and used for strengthening the case for conserving old growth forest.

The second question relates to some of my personal research on the diversity of arboreal arthropods. Just by sampling four eucalypt species, two near Perth and two near Sydney, we have found a phenomenal richness. Although we have sorted the material to species level and sent much of it to taxonomists, we are still not sure what the degree of overlap is between the WA and NSW faunas. It is important to know this as it influences our estimates of arboreal arthropod richness. At present we believe that the overlap is about 5%. My question is to taxonomists who may have inspected lists of arthropods from sites on the two sides of the country. Excluding the more arid interior where there are likely to be many species in common, what is the percentage overlap in species composition in your particular group of animals? Any feedback on this would be most appreciated as we are currently considering the likely richness of arboreal arthropod faunas within Australia.

The Society has received correspondence regarding the **NSW Threatened Species Bill 1995** (No 2) expressing concern that it places undue weight on 'species' protection rather than 'habitat' protection. Anyone with information or opinions on this Bill can contact me and I will collate them for transmission to the relevant persons.

Under section 129 of the Act a committee is to be established to advise the Minister for Environment on matters pertaining to threatened species. One member is to be a scientist nominated by our Society and **Robin Gunning** has agreed to do this.

Jonathan MAJER
Convenor
AES Conservation Committee

Report on meeting at Melbourne University November 27th - December 1st 1995 entitled "Invertebrate Biodiversity and Conservation".

This meeting took place over five days and included nearly 70 spoken presentations and 20 posters. Most of the papers (43) dealt with "biodiversity" of particular groups and were delivered by the relevant expert taxonomist. Although many of these were quite fascinating as far as providing an overview of numerous groups of conservation significance in Australia, few were sufficiently focussed to offer a mechanism for setting priorities for the conservation of any particular group. **John Hawking**'s paper on Australian dragonflies was an example of one which offered a practical outcome for the whole taxon.

Unusually, there were 21 papers which concerned methodology which, on the face of it, should have been useful. However far too many of these concerned problems or otherwise in the use of pitfall traps. Experiments which were described have been done before, in fact many were published in the literature over 30 years ago. A summary of them is readily accessible in Southwood's "Ecological Methods". Again there was a disturbing, somewhat uncritical, overemphasis on ants and analysis of data on them using functional groups, disturbing because the validity of functional groups has never been established. Moreover, the originator of these groups for Australian ants, later had serious misgivings about using them in ecological work! **Jonathan Majer**'s paper, although not presenting a new idea, was valuable in that it focussed attention again on the errors inherent in relying on a single method such as pitfalls when comparing faunas across vegetation types.

Another group of papers in the methodology basket dealt with short cuts to biodiversity assessment. **John Trueman**'s critique was succinct and led me to the conclusion that although a lot of money has been spent on trying to find short cuts, there are none. At least we now know we just have to get on with the job of setting conservation priorities in "fast but not rapid" ways.

Another group of papers concerned threatening processes of which there were only 12. Four dealt with fragmentation, 2 fire, 2 exotic species and one each biological control, forestry practices and tracks. **Adrienne Kinnear**'s paper on the effect of grazing on rangeland mites should also have been included here but her title was a little misleading. **Peter Bridgewater**'s opening address stressed the need for information which can be of practical use to land managers so it is disappointing that so few papers directed to this aim were offered in this group and rarely were recommendations as to management included. As always, **Alan York** has some impressive data which I am hopeful will, in due course, be influential in changing current fire management practices for the better.

Finally a group of papers concerned legislation on endangered species, particularly on the benefits or otherwise of listing invertebrates. I have already commented at length on this process in a previous issue of *Myrmecia* ("Recent Developments in Endangered Species Legislation", *Myrmecia*, May 1995, **31**(2): 4-7) so will only note here that this subject incited the most interest in the audience of any other, so much so that it is clear that a workshop on the subject is needed at the next meeting (Macquarie University 1997?). One new point however arose. That is, do State (or Federal) governments have a right to expect experts to supply information without paying for it if the collection of that information was funded privately by the expert or by another body? I would say they don't but this was a minority view. Most of us would be aware by now that the subject of intellectual property is a thorny one and perhaps we could benefit from some legal input at the next meeting.

There is no doubt that the meeting was an enjoyable and relaxed one. The organisers did a good job in keeping the costs down as well. The only critical comments that I heard (and agree with) were that five days is too long for such a meeting and that two and a half days would have been ample. If this needed concurrent sessions, so be it. Alternatively, a number of papers would have been more appropriately presented as posters but another criticism was that there was no set poster session and that the poster room was some distance from the main lecture theatre and assembly area. Few people actually viewed them.

On a less serious note, the most memorable image of the week is of **Glen Ingram**, leaning over the lectern towards the audience and gently encouraging us to admire the seductive curves and spines of his favourite creatures, the slaters.

Penelope GREENSLADE

Report of the Organising Committee of The 26th AGM and Annual Scientific Conference

Tamworth, NSW 23-28 Sept 1995.

The 26th AGM and Annual Scientific Conference of the Australian Entomological Society was held at Farrar Memorial Agricultural High School, Tamworth from the 23rd to 28th September. The conference was a small friendly meeting with an excellent scientific program of international interest. Despite the small numbers of delegates, we managed to achieve a profit for the society.

The conference organising committee comprised **Robin Gunning, John Hosking** and **Royce Holtkamp**, all of NSW Agriculture, as co-convenors. John acted as treasurer, Robin as secretary, Cotton Entomology Symposium convenor and sponsorship coordinator, while Royce fulfilled the role of editor. We found that the work load was extremely heavy for such a small committee and we are very grateful to our technical staff for assistance "above and beyond the call of duty". Thanks are especially due to **Marje Balfe, Nerida Coleman, Brett Craswell** and **Lyn Deegan**. The conference logo was the painted vine moth *Agarista agricola* (the nicest looking insect we have in the Tamworth collection) and we thank **Nerida Coleman** for illustrating it.

Farrar Memorial Agricultural High School is situated on the outskirts of Tamworth. This venue, although not perfect, was the most suitable in Tamworth and inexpensive to hire. We used the large school hall and the gymnasium for the scientific and poster sessions respectively. As Farrar High is a boarding school, we were able to offer cheap accommodation and breakfast for students at the venue. The school's catering staff also provided an evening BBQ, all morning teas, lunches and afternoon teas. The school staff were very helpful to us both in the planning stages and during the conference and solved many "housekeeping nightmares" for us. Thank you **Dennis Clapham** (Property Manager) and **Ian Downes** (Principal). The majority of conference delegates were comfortably accommodated at the Tamworth Towers Motel (although we had some problems with the motel attempting to charge some delegates more than the agreed room rates).

An informal conference dinner was held at the Tamworth RSL Club's function centre. A day-long, field trip was made by bus to Oxley Wild Rivers National Park, near Tamworth. The rain during the conference (which marked the start of the breaking of the drought) made for a spectacular sight at Apsley Falls. The AGM and Council Meetings were held at Farrar High School.

The conference was opened with a thought provoking address from Mr **Tony Windsor**, MLA (Member for Tamworth in the NSW Parliament) about the need for agricultural research. Mr Windsor is a leading proponent of sustainable agriculture and agricultural research. The conference scientific program had two main symposia, cotton entomology and native insect conservation. Excellent key note speakers were Dr **Ian Denholm** (IACR-Rothamsted, UK) and Dr **Tim New** (La Trobe University) for the Cotton Entomology and Insect Conservation symposia respectively. Sessions were also held on biological and integrated control, systematics and general entomology. A poster session and entomological software demonstration covered all these themes. Scientific illustration and photographic competition entries were displayed along with the posters. A tasting of local wines was held during the poster session, which induced more delegates to stay for the session.

The Cotton Entomology Symposium attracted a great deal of interest from the whole of the cotton industry (growers, agricultural consultants, chemical industry) with registrations exceeding 140 on that day. Dr Denholm's superb paper on the management of resistant whiteflies on cotton was the major address. However, there were other excellent invited and contributed papers given on whiteflies (eg **Rick Roush**), transgenic cotton and the cotton industry's perceptions of entomological problems. We thank The Cotton Research and Development Corporation for travel funds to bring **Ian Denholm** to Australia to speak at the conference. Other generous sponsors of the session were The Australian Cotton Growers, Ciba-Geigy, Crop Care, Hoechst Schering AgrEvo and Rhône-Poulenc Rural.

The considerable sponsorship of the cotton symposium and additional assistance from Australian Entomological Supplies, Carl Zeiss and Integrated Pest Management P/L enabled us to financially assist invited speakers, subsidise general conference fees and return a reasonable profit to the Australian Entomological Society. We may have missed a commercial opportunity with our attractive conference souvenirs. Conference mugs and T-shirts were highly sought after but they were sold to delegates at cost price! A loss was made on the student accommodation as only 37 bed and breakfasts were required, although 78 were ordered. Student delegates, who left early, changed their minds, or did not show up at all, should be aware we had to pay for them, regardless of their reasons!!

In all, we found the conference organisation to be an interesting, if rather time consuming occupation. We were somewhat disappointed with the small number of registrations. However, a small conference made for a very friendly one and scientific content was not lacking. While the time passed in a panic stricken blur for the co-convenors, we believe that most delegates enjoyed the conference and their stay in Tamworth. We thank the society's Adelaide executive (**Peter Allen, Paul Madge, John Jennings** and **Gary Taylor**) for unfailing encouragement and assistance.

Robin GUNNING
John HOSKING
Royce HOLTKAMP
Co-convenors 26th AGM

The Australian Entomological Society Inc.

Notice of 27th Annual General Meeting

The Society's 27th Annual General Meeting will be held in Christchurch, New Zealand on 24 August 1996. An Agenda appears in this issue of *Myrmecia*. Members who wish to have additional items included in the Agenda for discussion at the 27th AGM need to provide the Secretary with details by **19 July 1996**.

Call for Nomination of Office Bearers and Councillors

The following Offices will fall vacant at the Society's 27th Annual General Meeting on 24 August 1996. Nominations for election should be made on the form provided and should reach the Secretary by 15 July 1996.

Vacant Office	**Present Incumbent**
President	Prof. RE Jones

(Professor Rhondda Jones was elected at the Society's 25th AGM in Adelaide in 1994 and is not eligible for re-election.)

Vice-President	Dr PG Allen
Secretary	Dr GS Taylor
Treasurer	Mr JT Jennings

(Vice-President, Secretary and Treasurer are eligible for election but are not standing for re-election)

Chief Editor	Dr PG Allsopp
News Bulletin Editor	Dr MJ Fletcher
Business Manager	Ms A Roach
Public Officer	Dr ID Naumann
Technical Editors:	Dr AN Andersen
	Dr AL Bishop
	Dr ID Naumann
	Dr AJ Wapshere

(Chief Editor, News Bulletin Editor, Business Manager, Public Officer and Technical Editors are eligible for re-election)

Regional Councillors		
Queensland	Dr TA Heard	♫
	Mr GB Simpson	♫
	Dr C Reid	☺
New South Wales	Mr SL Doggett	☺
	Mr JH Hawking	☺
	Ms L Rodgerson	♫
Victoria	Dr R Coy	☺
	Ms N Endersby	☺
ACT	Dr GV Maynard	☺
	(vacant)	☺
South Australia	Mr WE Frost	♫
	Dr MA Keller	☺
Western Australia	Dr D F Cook	♫
Tasmania	Mr R Bashford	♫
Northern Territory	Mr CG Wilson	♫

☺ Eligible for re-appointment
♫ Not eligible for re-appointment

If only one valid nomination is made for any position, that nominee will be declared elected at the AGM. If more than one nomination is received for a position, a postal ballot will be conducted.

Representative Councillors	
Ent. Soc. of Qld*	Dr J King
Ent. Soc. of NSW*	Dr AD Clift
Ent. Soc. of Vic*	Mr P Carwardine

* To be nominated by the Societies

Gary TAYLOR
AES Honorary Secretary

The Australian Entomological Society Inc.

PROVISIONAL AGENDA
27th ANNUAL GENERAL MEETING

Lincoln University, Christchurch, New Zealand
Saturday, 24 August 1996

1. Opening and General Announcements
2. Announcements of Proxies and Apologies
3. Deaths of Members recorded since 26th Annual General Meeting
4. Minutes of 26th Annual General Meeting (Published in *Myrmecia*, November 1995)
5. Business arising out of the Minutes
6. Executive Annual Report, including reports of Vice-President, Treasurer, Business Manager, Chief Editor and Editor of News Bulletin
7. Report of the Conservation Committee
8. Competitions and Awards
   - 8.1 Ian Mackerras Medal
   - 8.2 AES Service Award
   - 8.3 AES Phil Carne Prize
   - 8.4 AES Research Grants
   - 8.5 AES Insect Illustration Competition
   - 8.6 AES Photographic Competition
9. Business arising from the 51st Council Meeting, Christchurch
10. Announcements of Office-Bearers and Councillors for 1997
11. Report of the Organising Committee, 27th Annual General Meeting
12. Report of the Organising Committee, 28th Annual General Meeting
13. Other business (arranged with the Secretary no later than 19 July 1996)
14. Close

Gary TAYLOR
Honorary Secretary

The Australian Entomological Society Inc.

Appointment of Proxies

I, ...

of . . . .

. . . .

being a member of the above-named Society, hereby appoint:

. . . .

of . . . .

. . . .

as my proxy to vote for me on my behalf at the Council Meeting, Annual or Special General Meeting, as the case may be, of the Society, to be held during 22-27 August 1996, and at any adjournment thereof.

Signed this . . . . . . day of 1996

(Signature) . . . .

(A photocopy of this form may be used.)

The Australian Entomological Society Inc.

Nomination of Officer or Councillor

I nominate . . . .

for election to the office of . . . .

Name of nominator . . . .

Signature . . . . Date . . . .

I second this nomination

Signature . . . . Date . . . .

I accept this nomination*

Signature . . . . Date . . . .

*The nominee is requested to attach a typed statement, not exceeding 300 words, which includes the following: professional qualifications, address, institution, position held, fields of entomological interest, previous offices or appointments held in the Society; any other information which may be of assistance to members.

(A photocopy of this form may be used.)

REGIONAL NEWS

AUSTRALIAN CAPITAL TERRITORY

Australian Biological Resources Study (ABRS)

The first Heteroptera volume of the *Zoological Catalogue of Australia*, Volume 27.3, made it on to the shelves just before Christmas. Compiled by **Gerry Cassis** and **Gordon Gross**, and edited by **Keith Houston** and **Glynn Maynard**, it is the seventh insect volume now available in the series. Another, including Psocoptera, Phthiraptera and Thysanoptera, is expected to be ready for publication early this year.

The program for compilation of the *Zoological Catalogue of Australia* has been re-developed and is currently undergoing pre-release testing. **Eva Bugledich** is joining the Catalogue unit for several months to assist with testing and transfer of the old database into the new program.

ANIC and allies

Congratulations to **Ian Naumann** and **Katie Strong** who were married on the 20 December 1995. A large number of Taxonomists were brought out of their closets along with other

Entomologists who all had very pleasant evening at the Sculpture Gardens of the National Art Gallery to help celebrate this event.

With the arrival and settling-in period of the new Chief, **Paul Wellings** (welcome) comes a period of introspection in the Division of Entomology. In the Natural Resources and Biodiversity Program (under which the Australian National Insect Collection falls) the navel fluff under examination is multi-coloured - some bright strands, some less so. All will be scrutinised in a March lock-up at Thredbo. Since the last report from this group, **John Curran** and his staff moved into the NRBP to form a third sub-program of Molecular and Information Technologies, to add to **Rob Floyd**'s Ecology and the **Ebbe Nielsen**-led Taxonomy. Ebbe remains in charge of the overall program.

Jurgen Otto visited Landcare Research, Auckland, NZ from 14-24 December, then headed to Townsville after New Year to check out the climate.

Rob Floyd spent December and much of January in Tasmania at the CRC for Temperate Hardwood Forestry as a visiting scientist. **Marcus Matthews** was in Melbourne at Monash University 2-8 December. **Roger Farrow** and **Ros Schumacher** surveyed fireblight beetle in Victoria before Christmas and **John Dowse** and **Rex Sutherland** undertook intensive weed control in various of the Eucalypt project trial sites.

Debbie Kirchner has been awarded a volunteer fellowship with **David Rentz** in the Orthoptera Unit for the period 6 November 1995-6 April 1996. **John Peake** visited ANU and the Division in December to discuss educational aspects of the Indonesia Global Environment Facility Project. **Peter McQuillan**, University of Tasmania, **Tosio Kumata**, Systematic Entomology, Hokkaido University, Japan and **Jan Klimaszewski**, Landcare Research in Auckland, NZ visited ANIC in December. **Andy Austin** (Waite Institute) has made several visits, including attending the "Taxonomy in Crisis" meeting organised by ABRS.

John Trueman has taken up an appointment at the Australian National University. This is a joint appointment between the Research School of Biological Sciences and the Division of Botany and Zoology, involving research on development of systematic methods, and undergraduate teaching in systematics. For the past three years (on and off) John's skills and intellect have been idling whilst involved in biodiversity projects and critiques of conventional taxonomic practice regarding key construction. Interspersed in this dalliance have been sporadic pleas for help from virtually every numerate (and some less than ..) systematist in Canberra - all handled with tact, no matter how facile or time-consuming the request. ANIC wish him all the best over-the-road. Another substantial loss to ANIC was the departure of **Judy Newland** to a position in the National Library - her entomological cataloguing abilities will be missed.

Ulrike Nolte, a limnologist who has been working in the Pantanal area of western Brazil for the past three years since graduating in Germany, arrived in the New Year to work with **Pete Cranston**. Her first visit to Australia, for the International Symposium on Chironomidae in Canberra in 1994 created a desire (fulfilled) by Ulrike to complete her Brasilian research in ANIC.

Professor **Alan Clements**, erstwhile head of entomology at the London School of Hygiene and Tropical Medicine and author of "The Biology of Mosquitoes" for Chapman and Hall, arrived later in January for a shorter stay, also as a Visiting Scientist. Alan will not be studying mosquitoes during his visit - in retirement he has been able to resume his interest in the systematics of asilid flies.

Division of Botany & Zoology, ANU, Canberra

In September 1995, **Lyn Cook** attended two international conferences, where she presented a talk and a poster on her PhD research on the karyology and systematics of the gall-forming eriococcid genus *Apiomorpha*. Lyn found both the 12th International Chromosome Conference in Spain and the European Society for Evolutionary Biology Conference held in Edinburgh, Scotland, to be extremely enjoyable and also valuable to her work. PhD students **Kendi Davies** and **Brett Melbourne** both attended the Ecological Society of Australia Meeting in Hobart in late September to present papers and posters on their research. Kendi is studying traits which make beetle species prone to extinction after habitat fragmentation, whereas Brett is investigating the spatial dynamics of the epilithon-grazer system in the Clyde River catchment of NSW, although his talk at ESA was on research undertaken as part of his honours project on the assessment of biodiversity using ants and carabids in ACT grasslands. Kendi and

Brett also both contributed to the Invertebrate Biodiversity and Conservation Meeting held in Melbourne before Christmas. **Penny Gullan** also went to the Melbourne conference, which she found especially enjoyable because of the long lunch breaks that allowed ample time to sample the restaurants and coffee shops in Carlton.

In late October, **Katie Strong** visited collections at the Western Australian Museum and the Department of Agriculture in Perth to borrow margarodid and eriococcid specimens for research and also to look at their collections of mites. **Mark Harvey**, **Brian Hanich** (Western Australian Museum) and **Jeroenden Hollander** (Dept. of Agriculture) were extremely helpful in supplying interesting and useful material for future study. She stayed with mite expert **Adrianne Kinnear** of Edith Cowan University and took a field trip to the Mount Lawley campus of Edith Cowan University to see Adrianne's lab. and to meet some of her students. Adrianne and Katie also took a field trip to Fremantle for recreational purposes but returned in time to discuss identification of soil Prostigmata with **Tony Postle**.

In early November, **Penny Gullan** and **Katie Strong** visited collections at the Queensland DPI and Queensland Museum to study and sort eriococcid and margarodid specimens for taxonomic research. The extensive DPI scale insect collection kept them very busy, but unfortunately they arrived in Brisbane during a heatwave and the air conditioning system at DPI had died, so they spent days sweating over microscopes in **John Donaldson**'s lab. Penny also went to the CSIRO labs at Indooroopilly (where the air conditioning did work) to talk with **Veronica Brancatini** and **Don Sands** about their work on *Icerya* species. Katie visited **Stephen Barker** at the University of Queensland to discuss tick research and both Katie and Penny briefly visited the Department of Entomology at UQ. **Geoff Monteith** took Penny, Katie and **Ian Naumann** on a short field trip to Mt Crosby to show them living specimens of a fascinating (to coccidologists at least) scale insect that lives only with ants inside hollow stems of *Canthium*. Geoff and **Paul Flower** have been studying the biology of this ant-scale-plant association for several years and Penny and **Aimorn Stewart** (also of ANU, Canberra) are describing the scale insect as a new species and genus of Coccidae. En route home from Brisbane, Katie and Penny visited BCRI at Rydalmere to borrow scale insect specimens from the Froggatt collection. Katie has since been sorting numerous slide mounts of eriococcids for her ABRS-funded postdoctoral position on the systematics of Australian *Eriococcus* and related genera.

Anantanarayanan Raman, who has worked extensively on insect galls in India, visited Canberra on 19 January to meet **Penny Gullan** and **Laurence Mound**. Raman is a renowned academic from Loyola College, University of Madras, but in late 1995 when he immigrated to Australia. We welcome him to Australian entomology.

You Ning Su will be starting his Graduate Diploma in Science in March and will do a project on the biology of two species of dwarf crickets (Gryllidae: *Bobilla*). His research will be co-supervised by **Dave Rentz** of CSIRO Entomology and **Penny Gullan.** You Ning has spent the last few months working part-time for **Paul Cooper** on a project on digestion in the blackfield cricket.

Australian Quarantine and Inspection Service

The initial frantic activities of the papaya fruit fly outbreak in North Queensland has calmed down. AQIS is now in the initial stages of starting projects to increase the monitoring for *Lymantria dispar* and exotic fruit flies which is guaranteed to keep all involved very busy for some time to come.

Glynn MAYNARD
Regional Councillor

NEW SOUTH WALES

NSW Agriculture
BCRI, Rydalmere

Staff throughout the Department have been offered Voluntary Redundancies to selflessly lay down their jobs for the benefit of the State Budget. Unfortunately there appears to have been more cooperation from outside of BCRI than within. Only a handful (mind you, a fairly large handful) of BCRI staff have left at this stage and none of those in Entomology. We feel this says more about the available options in Entomology than about any higher level of loyalty to the Department. Mind you, there are significant rumours about a number of prominent entomologists making plans to relocate to various universities in Sydney rather than follow the Department's plan. Plans for the construction of a building at Orange to house the collections and associated staff are now being drawn up in consultation with the staff and it is expected that this will be completed in time for the collections to be moved by the end of the year.

Meanwhile, the Taxonomy Unit continues to identify some 60,000 specimens of *Bactrocera* each week with the vast bulk being *B. cacuminatus*. The staff has been increased by the addition of three temporary assistants now highly trained in fruitfly identification. **Allara Studdert**, a former ATS trainee at BCRI, **Joanne Fettell** and **Rachael Taylor** will be with us until the end of March. Rachael has also been involved in identification of fruitfly larvae using an effective and rapid DNA test developed in December (but without the fanfare of the later Queensland effort) by **Michael Gillings**.

Jasbir Singh Mann has been working in an honorary capacity with **Murray Fletcher** on leafhoppers. Jasbir has spent many years working in India on the taxonomy of typhlocybine leafhoppers and has arrived in Australia just as Murray is looking to fill positions on Australian Typhlocybinae funded by ABRS. Jasbir also has an impressive publication record on the Chrysomelidae, having undertaken postgraduate work in London with **Roy Crowson**.

Visitors to the Taxonomy Unit have included **Laurence Mound** (a regular now), **John Lawrence**, to digitally acquire some of the original Zeck illustrations of beetles, and **Lionel Hill**, who browsed through the microheteroptera following a Western Flower Thrips meeting at the Institute.

Mary Ann Terras has moved from mushroom entomology research into fruitflies, having moved to a position as Technical Manager of the TriState sterile fruit fly production and distribution program. **Laurie Sanchez** (of marital aids fame) is working with her at BCRI.

Graeme Baker has been very busy with wingless grasshopper and other orthopterous pests and was delighted to find a new isolate of the fungus *Metarhizium flavoviride* on Australian plague locusts in the Hunter Valley in January.

Dr Horishi Tanka, Osaka Prefectural Agricultural and Forestry Research Centre, Osaka, Japan visited the Institute on 8 January to see **Andrew Beattie, Victor Rajakulendran, Graham Goodyer** and **Graeme Baker**. He was taken on a tour of plague locust and wingless grasshopper infestations in NSW later in the same week.

Murray-Darling Freshwater Research Centre Albury, NSW

John Hawking spent a week in late November in Sydney with **Gunther Theischinger** working on their key to the Odonata larvae. John also had the benefit of attending the Invertebrate Biodiversity and Conservation conference at Melbourne University from November 27 until December 1, 1995, presenting a paper on 'The Conservation Status of Dragonflies.'

Phil Suter, a renowned mayfly specialist, formerly of the South Australian EPA has moved residence to Wodonga in January, and taken up a position at La Trobe University, Wodonga campus, in their Environmental Science Department. We wish him all the best in his new undertaking and are very pleased to have him in close proximity for those last minute identification problems that can occasionally arise.

The Eighth Taxonomy Workshop is being held this year at the CRC's Murray-Darling Freshwater Research Centre, Albury from the 20th to the 21st February, 1996. This year approximately ninety participants, from all over Australia, will have the benefit of attending workshops on the taxonomy of Ephemeroptera and Molluscs. We are very pleased to have **John Dean**, from the Victorian Environment Protection Authority, and **Brian Smith** from the Queen Victoria Museum and Art Gallery, Launceston, Tasmania to present their latest identification guides on the taxonomy of Mayflies and Molluscs respectively. The proceedings of the Workshop will be available for purchase after 21 February and all enquiries regarding the cost and shipment of Identification Guides should be directed to either **John Hawking** or **Jo Thompson** at the M.D.F.R.C on:
telephone 060-431002 or fax: 060-431626.
E-mail enquiries: hawkingj@mdfrc.canberra.edu.au

Other guides in the series are available and a mailing list can be supplied upon request.

University of New England.

Members of the crop protection unit have managed to continue field trips despite the rains. **Peter Gregg** and **Alice Del Socorro** have been on several inland trips to conduct trapping experiments and one to recover data loggers lost in the floods. **Marie-Louise Johnson** has also managed to dodge the rains to collect natural enemies of heliothis from the Narrabri district.

Alice Del Socorro, Rob Annets and **Mozzem**

Khan attended a Presentation Skills Workshop at Myall Vale, Narrabri. Congratulations go to **Supawan Kianmatee** (Gibb) on the completion of her Masters Degree. Gibb has returned to Thailand.

Members of the crop protection unit in Agronomy recently put on a delightful and informative workshop for visiting students who are part of the Siemens science school. Students come from various high schools in New South Wales and Queensland.

New students working with **Mary Notestine** in the Zoology Department are **Neil Tripodi** and **Steve Whitelaw**. Neil will conduct an honours project on aquatic insects associated with different substrates in Magela Creek, Northern Territory and Steve is doing his PhD on comparing the litter and soil fauna of old growth and regenerated eucalypt forests. Another of Mary's students, **Suratman**, has recently returned from a season of work in Indonesia in order to complete his Masters on soil insects.

John HAWKING
Regional Councillor

NORTHERN TERRITORY

CSIRO Division of Wildlife and Ecology
Tropical Ecosystems Research Centre

This is the column where too much about ants is barely enough. **Alan Andersen** would like to say gidday to all *Myrmecia* readers, so gidday from Alan. Now where were we? That's right, ants. In December Alan attended an Invertebrate Biodiversity and Conservation Conference in Melbourne where everybody was talking about ants except those who were talking about land snails. Alan talked on surrogates for ant species richness. Next week he's off to Brisbane for an Off-Reserve Conservation conference where he will talk on ants as indicators of biological diversity. Then in April he will be talking about ants again in Brazil at an ant conference. One wonders what he will do on that rapidly approaching day when the entire world scientific community has heard his talk on ants. Perhaps he will start talking about land snails? I can hardly wait.

Alan has a visiting PhD student from UQ with him at the moment. **Brian Heterick** is revising the genus *Monomorium*. In mid-February he will be entertaining **Archie McArthur**, a *Camponotus* specialist from the South Australian Museum.

The CRC-funded biodiversity ecologist position that was alluded to in the previous issue of *Myrmecia* has been filled. **Tracey Churchill**, who sends shivers up and down the spine of spineless arachnophobes like myself in her alter-ego as Spiderwoman, starts in mid-March following completion of her PhD at Griffith University.

CSIRO Division of Entomology
Tropical Ecosystems Research Centre

Paul Wellings and **Mic Julien** visited independently during November. Paul was taken for a flight over the expanding sea of mimosa on Aboriginal lands in the Finniss and Daly River regions. Mic had a guest from Papua New Guinea who was also flown over the mimosa, to impress upon him the threat posed to similar habitats in PNG if incipient infestations of mimosa are not controlled.

Following that little flurry of activity, the sound of gentle seasonal snoring once again wafted about the corridors. **Grant Farrell** went sloping off around the country visiting family in Melbourne and friends in Canberra, while **Naomi Rea** attended an ANCA Wetlands Strategy Meeting in Canberra.

Department of Primary Industry and Fisheries
Entomology Branch

Stuart Smith has left the branch for another 2 month consultancy. This time he has gone to Rabaul to inspect a cocoa plantation he helped establish there some years ago. He was a bit concerned that all of his good work might have ended up under several metres of volcanic ash following the excitement in Rabaul recently. We'll have to wait for the next *Myrmecia* to see how the crop survived.

Stuart's seat was still warm when **Glenn Bellis** moved in to borrow the office. **Laurence Mound** and **Alice Wells** paid a visit just after Christmas. They were chasing thrips in the region while investigating a theory that exotic thrips are entering the NT from Indonesia via the north-west monsoon winds that predominate at this time of year. Meanwhile, the routine monitoring for thrips and whitefly that have already arrived in Australia continues.

Haidee Brown and **Mark Simpson** had another baby girl - Eilish Kathleen - in early January. **Heather Wallace** has been employed full time to fill in for Haidee until she returns to work in June.

Deanna Chin and **Heather Wallace** have been working on the release of *Tetrastichus brontispae* (Ferriere), a parasite of palm leaf beetle *Brontispa longissima* (Gestro). Over the past 12 months this eulophid parasite has been released in coconut palms along Darwin foreshores and is now established at two sites.

Department of Primary Industry and Fisheries NT Quarantine and Inspection Branch

The last 3 months of **Ted Fenner**'s life have been fruitfully spent in a fruitless search for the papaya fruit fly in the NT.

In December **Glenn Bellis** spent a week in Cairns looking at the attempts to eradicate papaya fruit fly and Siam weed. He met with several members of the Brisbane fruit fly team who were seconded to Cairns to sort the collections generated by the program, and WA's **Bill Woods** who was also having a look at the situation. Glenn also found time to visit **Judy Grimshaw** and **Barbara Waterhouse** in Mareeba to discuss aspects of the NAQS program. Back in Darwin later that month, Glenn accompanied **Laurence Mound** and **Alice Wells** in their search for exotic thrips.

Department of Primary Industry and Fisheries Weeds Branch

Colin Wilson and **Rachel McFadyen** (QDL) had their collaborative Siam weed biological control project reviewed in November. They travelled from one end of Indonesia to the other with their reviewers, **Andre Gassmann** of Delemont in Switzerland and **Dr Muniappan** of the University of Guam. In Bogor, Colin's command of the language saved the group from being ripped off by a bemo driver to the tune of 5,000 rupiah (about $3), but didn't prevent them from being deposited miles from their hotel in a tropical downpour. Colin carried the new tephritid gall fly, *Procecidochares connexa*, from Marihat in northern Sumatra back to Kupang in West Timor and made the first field release there.

In January, Colin, **Grant Flanagan**, **Bertie Hennecke** and **Debbie Van Rangelrooy** all travelled to Seth Ifrica to attend the IX International Symposium on Biological Control of Weeds at the University of Stellenbosch. The highlights of the meeting, aside from Grant's entertaining talk, were

IX Int. Symposium on Biological Control of Weeds, Univ of Stellenbosch, Sth Africa.
Jim Cullen, Tim Woodburn, Mrs Cullen, David Briese (all CSIRO, Canberra) and John Scott (CSIRO, Wembley, WA) enjoy the Happy Hour after a day of sessions.

IX Int. Symposium on Biological Control of Weeds, Univ of Stellenbosch, Sth Africa. Grant Flanagan, Bertie Hennecke, Colin Wilson (all DPIF, Darwin) and Peter James (QDL, Townsville) wait in front of Bertie's poster for the bar to open on another splendid Happy Hour.

IX Int. Symposium on Biological Control of Weeds, Univ of Stellenbosch, Sth Africa. Colin Wilson (DPIF, Darwin), Rachel McFadyen (QDL, Brisbane), Peter James (QDL, Townsville), Bertie Hennecke (DPIF, Darwin), Barbara Waterhouse (QDPI, Mareeba), Grant Flanagan (DPIF, Darwin) and Debbie Van Rangelrooy (DPIF, Tennant Creek) soak up the ambience of Cape Town's delightful waterfront.

IX Int. Symposium on Biological Control of Weeds, Univ of Stellenbosch, Sth Africa. Debbie Van Rangelrooy (DPIF, Tennant Creek) and Damien Burrows (USDA ABCL, Townsville) turn their backs on the view near Stellenbosch during a field trip to inspect biological control of Australian invaders.

the sumptuously catered Happy Hours every afternoon, featuring lashings of free local wines (see photos above). The Australians all felt quite at home amongst the wattles and gum trees that are rapidly displacing the local fynbos vegetation.

Colin Wilson was given a hard time about his poster which bore little resemblance to the title. Let me take the opportunity here to defend his honour. When poster titles were solicited, "Biological control of mimosa begins to work" seemed a perfectly reasonable statement and a field experiment was planned to prove the observation that bud-weevils were preventing seed set. It was an elegantly beautiful design which for various reasons was started in mid December, and analysed a few days before departure for the dark continent. To cut a long story short, the experiment didn't work and the clinching graph was omitted from the poster. The mother of all field experiments will now be repeated with modifications next week.

Museum and Art Gallery of the Northern Territory

Graham Brown has steered his Northern Territory jalopy onto the Information Superhighway. He can now be greeted with insults every morning at Graham.Brown@dwnmus.magnt.nt.gov.au. His summer consisted of chasing tiphiid wasps around the Darwin area. He found 4 new species at Adelaide River and 2 at Manton Dam. The only other incident of note was the report of marauding millipedes in a Darwin suburban park. **Dennis Black** of LaTrobe University says that this is only the 3rd species of millipede to be considered a pest in Australia. So what's being done about it? Well, nothing.

Territory Health Services
Medical Entomology Branch

Ross Nowland, Barbara Love and **Janiece Madigan**, under the guidance of **Gwenda Hayes**, have had a very successful *Aedes vigilax* control season. Helicopter time and insecticide use were at record levels. The thoroughness and persistence of the program has paid off with no plagues of salt marsh mosquitoes to date and very low levels of mosquitoes throughout the Darwin area.

Peter Whelan and **Brian Montgomerie** inspected the new McArthur River mine in November to advise on the prevention of mosquito breeding in effluent runoff and dredge spoil heaps. Brian also carried out a rush trip to Wollogorang on the Queensland border to investigate a suspected MVE case. This proved to be a false alarm, but tested our response time procedures. As a dubious reward, he acted as Branch head while Peter was on recreation leave.

The Branch annual report is almost ready for printing and is more comprehensive than ever after the grand efforts of **Gwenda Hayes** and **Barbara Love**.

Andrea Wilson is finishing up field aspects of her Honours thesis on *Aedes funereus* biology in Darwin and will be in the midst of writing up for the next few weeks/months?

Colin WILSON
Regional Councillor

S.E. QUEENSLAND

Queensland Department of Primary Industries Toowoomba

The papaya fruit fly scare in north Queensland has given Toowoomba Entomology staff a busy time with a number of innocent flies being brought in for identification in the belief that they may be papaya fruit fly. In many cases the specimens couldn't even be mistaken for a fruit fly [*It says a lot for the general knowledge of the public - we have had fruit flies submitted as possible European wasps!..Ed.*]

Gordon Simpson returned to Entomology in December, being appointed as an entomologist to work on the problem of mirids in transgenic cotton. This CRDC project will be funded until June 1998. He will work with **David Murray** and the other cotton research team members in Toowoomba. Gordon travelled to Narrabri in late December to discuss mirid rearing procedures with PhD student **Mozzem Khan**. They also discussed the mirid problem in general.

Andrea Kratzke departed the Toowoomba labs in January to look after Toowoomba's sick pets (yes, pets - not pests). **Angela Doherty** now cares for the *Microplitis* wasp colonies.

Neil Heather having retired from QDPI Entomology after completing 44 years' service in February 1995 has remained professionally active with part-time work involving quarantine related market access problems including fruit flies in Australia and SE Asia. He has recently been appointed an Honorary Research Consultant with the University of Queensland Gatton College and is further maintaining contact by assisting with the supervision of three higher degree students.

Queensland Department of Primary Industries Bundaberg

"I wouldn't know a fruit fly from a blue cattle dog but I think I've got one of those new ones" has been the most memorable Papaya Fruit Fly (PFF) enquiry of many received by **Iain Kay** at Bundaberg. Fortunately it was not one of the "new ones". A grid of 150 traps around the district continues to demonstrate for the benefit of New Zealand importers that PFF is not present in the Bundaberg area, but the traps catch an awful lot of other fruit flies. In the meantime Western flower thrips was recorded at Bundaberg for the first time in late January. Aren't these imported pests wonderful?

Adam Hardy left Toowoomba in January to work with **Iain Kay** on the tomato pest ecology project.

Mark Walton has visited Bundaberg on several occasions to supervise CTPM vacation scholar **Renee Baynes** who is investigating the emergence of potato moth from old tomato crops.

Private Sector, Toowoomba

Ian Common says that he has nearly completed the second volume of his monograph of the Oecophorine genera of Australia and hopes to have the MS in the hands of the publishers (CSIRO Publishing) in April. He has continued to do field work on the Oecophoridae. In late April - May he spent more than two weeks collecting in the Northern Territory, including the Darwin, Katherine and Alice Springs areas and Ayers Rock. After a week in Canberra working at the ANIC, Ian and his wife, Jill, spent 10 days collecting in western Victoria, including the Grampians. He took the opportunity of having a few hours at the Museum of Victoria, examining oecophorids in the Lyell collection.

Gordon SIMPSON
Regional Councillor

CRC Tropical Pest Management

During January, **John Rogers** will present a paper by **Gunter Maywald, Myron Zalucki** and himself entitled "A scarab population-biology template for the generic population model GENSECT" at the Scarabaeoidea symposium being held at South Africa's Kruger National Park and organised by the University of Pretoria, South Africa. **Jim Hanan** will present a paper entitled "Insect/Plant Interactions Program, Queensland, Australia - practical aspects of virtual plant research" at the "Computational Challenges in Life Sciences Symposium". The symposium will run from 3-5 February and is being organised by the CSIRO Supercomputing Support Group. For more information, contact their web site at http://www.dit.CSIRO.au/LifeSci/cfp.html

The Centre welcomes the following students who have been awarded CTPM vacation scholarships for 1995/96. Students will write a project report and present a brief overview of their projects during February.

Elizabeth Bamford, "Towards better communication about IPM: Understanding the preferences of vegetable growers", working with **John Foster**.

Renee Baynes, "Investigation of field trapping techniques for the tomato leafminer *Pthorimaea operculella*", working with **Iain Kay**, QDPI Bundaberg and **Mark Walton**.

Jodie Christensen, "The effect of deprivation on *Zygogramma bicolorata*; host selection behaviour", working with **Toni Withers**.

Emma Cottage, "Tomato growth responses to insect damage", working with **Peter Room** and **Kim Sprott**.

Geoff de Zylva, "Development of a *Bactrocera* (fruit fly) model template", working with **Myron Zalucki, Tania Yanow, Gunter Maywald** and **Anna Yeomans**.

Erica Davis, "Attitudes towards IPM amongst strawberry growers: A follow up survey", working with **Larissa Wilson** CTPM, **Michele Dale**, CTPP and **Geoff Waite**, QDPI Nambour.

Geoff Parker, "Genmap enhancements", working with **Gunter Maywald**.

Greg Thomas, "Data collection for evaluating an *Helicoverpa punctigera* information system", working with **David Adamson**.

This year, industry support for the program was obtained through QFVG.

Over the next few months, staff at the Centre will be busy formulating a proposal for the Centre's future. It seems like only yesterday that a group of Entomologists from QDPI, CSIRO, QDL and UQ gathered in response to the Federal Government's CRC initiative to put together an initial proposal. The rest, as they say, is history; the CRC for Tropical Pest Management was established as a first round CRC. Since then, much has been achieved by developing cooperative research and educational initiatives aimed at the better management of pests and weeds. These include a dedicated insect identities laboratory, enabling the rapid application of molecular and other techniques to 'problem' taxa; new approaches to plant modelling (Virtual plants); a generic insect population modelling tool (GENSECT); and problem specification workshops. The list could go on and on. Many new projects have been initiated, and the joint venture has added value to many more. Much though remains to be done!

There is now an opportunity to build on the experience of the past 4 years to develop a new CRC proposal. If you and your organisation want to be part of this process now is your chance. By February 14, the CTPM will indicate its intention to apply. From now until July 3, when the documents need to be in Canberra, we will be putting the submission together. **Myron Zalucki** is coordinating the submission. If you would like to participate in cooperative research (it can teach you a great deal about people) or would like to contribute to the submission, then contact Myron or the Centre - we would love to hear from you.

Tim HEARD
Regional Councillor

SOUTH AUSTRALIA

University of Adelaide
Department of Crop Protection

Congratulations to **Gary Taylor** and his partner Jill on the birth of their son Joseph on 23rd January.

Andy Austin has continued his study leave. Among his many and varied activities were presentation of a paper at the Insect Biodiversity Conference in Melbourne, a "collecting trip" to Lord Howe Island, Best Bug at the big Hymenoptera-Arachnida wedding in Canberra (see ANIC report).

Andy was awarded the Stephen Cole Elder Prize for Excellence in Teaching for his postgraduate supervision. **Muhammad Iqbal** also presented a paper at the Insect Biodiversity Conference in Melbourne. **Jo Kent** has started an Honours project on parasitoids of diamondback moth with Andy.

In **Mike Keller**'s lab **Herminanto** submitted his MSc thesis on parasitoids of diamondback moth, and has taken up an academic position at Jenderal Soedirman University in Indonesia. **Jorg Kitt** has completed his thesis on biological control of rose aphid and is currently working with SARDI. **Darryl Jackman, Kaye Ferguson**, and **Chris Soar** have completed their Honours degrees. Chris is now working for the CRC for Weed Management, Darryl has joined SARDI to study the behaviour of sterile fruit flies, and Kaye is working on plant diseases with SARDI.

Andries Zwaan from **Loise Vet**'s group at Wageningen in the Netherlands will visit Mike's lab for three months to study the behaviour of *Orgilus lepidus* and its host, potato moth. **Sheridan Purvis** will start an Honours project on wasp behaviour at the beginning of February. Mike received a French Government Scientific Fellowship and will spend three months in **Michel Boultreau**'s lab at University Claude Bernard studying parasitoids of *Drosophila* starting in March.

Makoto Kamei completed his honours project on virus-like particles with **Otto Schmidt** and will study toward at PhD at ANU on the genetics of *Drosophila*.

Rick Roush's lab is filling up with students. New PhD students include **Gwen Mayo** who will examine the genetics of resistance of St. John's wort to eriophyid mites in the genus *Aculus*, and **Craig Clarke** will study the biological control of boneseed with insect herbivores. **Peter Taverner** (SARDI) will study toward an MSc with Rick on the insecticidal effects of oils on citrus pests.

University of Adelaide, Roseworthy Campus

John Jennings undertook a field trip to south-western WA in late-November/early December to collect hyptiogastrine wasps. He visited **Terry Houston** at the WA Museum, **Peter Davis, Rod Emery** *at al.* at Agriculture WA, and CALM headquarters in Perth. In spite of several days of poor collecting due to inclement weather, he managed to collect a number of specimens and was able to obtain some useful biological data.

SARDI Entomology Unit

Jorg Kitt joined the unit in January, and has commenced a 6 month project which will evaluate baiting techniques for the control of European wasp. Jorg has several baiting sites located around the Adelaide metropolitan area. The wasps apparently have a voracious appetite for minced kangaroo, removing up to 25 gms an hour from each bait station.

Paul Bartlett of MAF, U.K., visited the entomology unit on December 15. A range of quarantine issues were discussed with various members of the group.

Those other fruit flies, Q-fly and med-fly, have again hit the headlines in SA, with three outbreaks being reported in metropolitan Adelaide in January. Meanwhile, **Dennis Hopkins** and **Geoff Baker** (CSIRO Entomology) have imported a third species of sarcophagid fly for quarantine testing against white snails.

With the 1996 navel orange export season gearing up, **Peter Taverner** is preparing to run a series of citrus packing shed in-line trials after the success of his oil bulk-dipping trials for the post-harvest control of citrus pests last season. Members of the Entomology Unit including **Peter Taverner, Peter Bailey, Bill Frost** and **Greg Baker** spoke about the Unit's citrus activities at the SA Citrus Board's Annual Industry Conference, held at Berri in late November.

CSIRO Entomology & Soils

The lab was visited for 6 weeks at the end of 1995 by **Prof. Jim Curry** from University College, Dublin. Jim was on an OECD Travelling Fellowship and whilst here he spent most of his time considering the rate of turnover of soil through earthworm guts and the influence of clay addition to non-wetting sands on the abundance of earthworms. Another visitor, **Li Mei Loo**, from La Trobe University, spent 19 weeks tackling the pH preferences of earthworms and the abilities of earthworms to bury surface-applied lime to offset soil acidity.

Geoff Baker participated in the National Soil Acidity Workshop in Perth and caught up with the CSIRO Entomology staff at Floreat Park whilst there. He and **John Matthiessen** discussed soil fauna research with a new CRC for Soil and Land Management appointee, **Petra van Vliet**, who is based in the Department of Soil Science at the UWA.

Chris Obst also travelled to WA to set up field trials at Kojinup and Northam for earthworm work in 1996, which will investigate the effects of several species on pasture production and lime burial. Similar trials were completed at several sites throughout western Victoria towards the end of 1995. These trials consistently showed relatively greater benefits resulting from the introduction of the deep-burrowing *Aporrectodea longa* than the smaller, more surface active species.

John Buckerfield takes off for a 4 month stint in New Zealand in early 1996. Whilst there John will study various aspects of the role of earthworms in soil improvement and organic waste breakdown.

The project on biological control of Mediterranean snails is in the midst of rearing cultures of introduced, parasitic sarcophagid flies in quarantine, and checking their host specificity against native Australian snails. The project was slowed by a sudden trip to hospital by **Penny Carter**, but Penny is recovering well from her operation and is now back on deck. Collecting the native snails required for the testing involves a lot of travel. If any member around the country is able to help collect some of these for us (a list of species is available), we would be very grateful!

CSIRO Wildlife

A temporary side-effect of the spread of Rabbit Calicivirus through the mid and far-North of SA has been the development of large populations of calliphorid flies in the area. During December and January, millions of rabbit carcases have literally taken on a shimmering green complexion as the blowies have swarmed onto them. Flies sent to **Jon Hardy** from traps at a CSIRO research site south of Yunta in SA's mid-North have been identified as the hairy maggot blowfly *Chrysomya rufifacies*. With luck, the rest of our furry feral friends around the country will become fly food in the not-too-distant future.

Consultant Entomology

Green mirids have made an unwelcome return to this season's lucerne seed crop in SA's South-East, according to **James De Barro**. Large populations of the mirids developed during December and, although numbers declined during January, some control was still necessary. Similarly, lucerne leaf rollers and nabis bugs were present in lucerne crops in greatest abundance in early December. By contrast, *Helicoverpa punctigera* populations built steadily throughout the summer to reach a peak in late January.

Bill FROST and Mike KELLER
Regional Councillors

TASMANIA

Forestry Tasmania

Staff changes in the Leaf-Beetle team are due to **Sue Baker** spending the summer in Antarctica based on Ardery Island observing skuas and **Nita Ramsden** caring for baby Leah at home. **Simon Brooks** is filling in for Sue and **Natasha Beveridge** for Nita. Assistance has been provided by **Daniel Vickers**, a forestry student from ANU and **Ian Taylor** from Gatton College, both on work experience.

Dept. Primary Industries and Fisheries.

Margaret Williams is currently on leave until March. **Trevor Semmens** is monitoring sticky traps being put throughout Tasmania in nurseries, flower wholesalers, etc for the detection of Western Flower Thrips. **Lionel Hill** and Trevor with the help of university students **Andrea Hurst** and **Jane Heath** are databasing insect records using ACCESS in a system based on CSIRO data dictionary. **John Ireson** continues to be involved in biological control programs including releases of Ragwort Flea Beetle and Cinnabar Moth for the control of Ragwort and the Painted Boneseed Leaf Beetle and Black Boneseed Beetle for the control of Boneseed.

CRC for Temperate Hardwood Forestry Resource Protection

Tony Clarke is investigating the effect of stand age on production of *Chysophtharta bimaculata* (Chrysomelidae). The question of whether a *C. bimaculata* larva can survive a fall of 50 or more metres from the canopy to the forest floor in order to pupate fascinates him. Do they bounce? **Vin Patel** is looking at fungi and nematodes waiting for the larvae in the litter when they finally come to rest. **Rob Floyd** is a Visiting Scientist who will be with the team for about 7 weeks mainly looking at the work of PhD student **Zoltan Lukacs** with autumn gum moth. **Martin Steinbauer** has completed his PhD thesis and has been awarded a post-doctoral fellowship with Charles Sturt University at Albury. Congratulations to Martin.

Dick BASHFORD
Regional Councillor

VICTORIA

School of Genetics and Human Variation La Trobe University.

Kim Jennings, Melissa Carew and **David Stoneman** studied aspects of social insects with **Ross Crozier** in 1995. Kim used microsatellites, some of which she helped develop, to study the colony structure of sugar ants (*Camponotus consobrinus*), with the aim of detecting genetic polyethism. The colonies proved to be far more complex genetically than had been expected from previous reports, a notable finding although it prevented ready testing for polyethism.

Melissa tested literature suggestions that the additional queens of common meat ants, *Iridomyrmex purpureus*, are derived from the same nest. Mitochondrial DNA variation found in one nest (this DNA is inherited strictly maternally) showed conclusively that some at least of the queens derive from other nests.

David sought for a homolog in the honey bee of the sex-determining switch gene sisterless-b of *Drosophila*. A positive clone was obtained, but lack of time prevented definitive confirmation via sequencing.

Invertebrate Survey, Museum of Victoria

The main activities in Invertebrate Survey have revolved around organising the Invertebrate Biodiversity and Conservation Conference late last year and involvement in field work.

All the staff from Invertebrate Survey attended the Invertebrate Biodiversity and Conservation Conference at Melbourne University and most presented papers.

There are a couple of new staff members in Invertebrate Survey. **Simon Hinkley** (who was previously employed on a northern plains invertebrate project) returned from his overseas jaunt to take up a three year position to assess the effects of ground layer disturbance and habitat fragmentation on ants in the box ironbark forests of central Victoria. This is a collaborative project involving Conservation and Natural Resources, Monash University and Deakin University with funding from ANCA and LWRRDC. **John Wainer** has joined Survey to assess the possible effects of an Optus telecommunications tower on the butterflies on a mountain near Mansfield. **Beverley Van Praagh** is continuing work on counting Eltham Copper Butterflies as well as the Giant Gippsland Earthworm.

Institute for Horticultural Development Agriculture Victoria

With the discovery of the papaya fruit fly in the Cairns district of North Queensland, **Mali Malipatil** has been kept busy with the identification of some of the fruit flies collected from different parts of the state by the Plant Standards Branch of Agriculture Victoria. The bulk of the flies have turned out to be *Bactrocera tryoni* and *B. cacuminata*. Also some larvae from infested fruit intercepted in parts of the state are being reared through to adults for species identification.

David Williams has been rapidly coming to grips with the intricacies of pest management in hydroponic tomatoes. He is also setting up a network of Queensland and papaya fruit fly traps throughout southern Victoria.

ABC Natural History Unit spent a couple of days in the insectary at IHD trying to get close-up shots of Bogong Moth feeding and mating. These are to be used in a documentary being produced by **Klaus Toft**.

Paul Horne is in the middle of field work in potato crops, further developing an IPM strategy that he hopes will soon include mass-reared parasitoids of the potato moth. **Dan Papacek** is collaborating in this work with trial rearing of the wasp *Orgilus lepidus*.

Bronwyn Houlding (CTPM and DPI Qld) came to visit **Peter Ridland** and **Nancy Endersby** to talk about insecticide resistance in *Plutella xylostella* and her role as IPM Scientist in the ACIAR project "Improvement of Integrated Pest Management in Brassica Vegetable Crops in China and Australia".

Nancy ENDERSBY and Robyn COY
Regional Councillors

OVERSEAS NEWS

NEW ZEALAND

It's the dreaded *Lucilia cuprina* again: During the last four or five years, the Australian sheep blowfly, *Lucilia cuprina* has spread throughout the North Island of New Zealand and the Entomology Group at Wallaceville Animal Research Centre, lead by Dr **Allen Heath** has been keeping tabs on it. The fly is very much more aggressive than the closely related *L. sericata* and has found its way to areas that rarely, if ever, worried about flystrike before.

Climatic conditions too, have played a part. Central Otago has traditionally not had to worry about flystrike but the combination of warm humid conditions and an unusually high rainfall has exacerbated the problem.

Television New Zealand picked up on the outbreak and slotted in on the 6 pm National News. It was nice to sit eating dinner and watching blowfly larvae enjoying theirs.

Recently, there have been reports of people being bitten by the white tailed spider *Lampona cylindrata*. Several individuals have required brief hospitalisation as a result of bites by this spider. The odd thing is, that it has been present in New Zealand for many years and is common. It is only recently reported as causing injury. Considering the outcry a few years ago about redbacks, there have been no recent reports of anyone being bitten by this spider. There is some concern that the closely related *Latrodectus katipo*, the katipo spider, is becoming rare in some localities. My wife won't be too worried about their demise having been bitten and hospitalised by one - the last recorded case. *L. katipo* is coastal, rarely found more than a few hundred metres from the sea and usually shelters under logs or old bits of tin in the sand dunes.

John TENQUIST
Overseas Correspondent

PAPUA NEW GUINEA

Entomology Research at Ramu Sugar

Serious observations on sugarcane insects began in 1962 with a view to establishing a sugar industry in the country. It was later in 1979 that sugarcane was first grown in nursery plots and subsequently in 1980 in commercial blocks in the upper reaches of the Ramu/Markham valleys. The impact of insect pests was immediately realised with the pyralids *Chilo terenellus* and *Scirpophag a excerptalis* and the weevil borer *Rhabdoscelus obscurus*, being the main stem borers. A planthopper, *Eumetopina flavipes*, was quite

Lastus Kuniata and his family during a visit to DAL Publications section.

abundant in the 1984-86 crops and was an important vector of Ramu stunt disease. In addition, a large area of the estate in 1984-86 was infested with the whitegrub *Lepidiota reuleeuxi*. An outbreak of the noctuid *Sesamia grisescens* was observed in late 1986/early 1987 causing considerable damage to cane and this stalk borer is currently the most important borer at Ramu. Following *S. grisescens*, an outbreak of the cicadas *Baeturia papuensis* and *B. valida* was observed in late 1988 and lasted for four years.

Outbreaks of these insect pests occurred in a space of ten years and it was realised that developing control measures for one pest species alone was not a viable proposition and therefore sustainable techniques for multi-species were needed. Entomological research began at Ramu in 1986 with the recruitment of **Graeme Young**. **Lastus Kuniata** joined as a trainee in 1987 after completing agricultural studies at University of Technology, Lae. Several basic studies on the biology of the pest species have been carried out and these have proved useful in the management of the pests. The current emphasis is on IPM especially with cultural practices, variety resistance and biological control using parasites. Other areas being looked at are the use of entomopathogenic fungi and sex pheromones.

Prior to 1992, *Mimosa invisa* weed was a major problem in pastures of the Ramu/Markham valleys. A biological control program was initiated by Ramu Sugar Ltd (RSL) in late 1992 using the psyllid, *Heteropsylla spinulosa*. This program was very successful and now the weed has ceased to be a major problem in pastures. This success has also been repeated in other release sites in PNG.

The sustainability of these research programs and their success, to some extent, depends on professional training and experience of the staff. The benefits of the training **Lastus Kuniata** received at Imperial College have been demonstrated in the success of these programs. He is at present doing a PhD through research with the University of Queensland. He is also the Head of Research Section at RSL, coordinating agronomic, pathology, entomology and sugarcane breeding programs. His research interests are in the development of a management strategy for *S. grisescens* and the control of weeds with herbicides or biocontrol agents.

Ray KUMAR
Overseas Correspondent (PNG)

NEWS FROM AFFILIATED SOCIETIES

Entomological Society of Queensland

1995 was another busy and successful year. Meetings were well attended and we welcomed several new members. **Harry Fay**, from DPI Mareeba was our speaker in October. His topic was Agriculture and Entomology in North Queensland. The biennial Perkins Memorial Lecture was given in November by Dr **Gordon Hooper**, Director of the Plague Locust Commission. His lecture, 'An Entomological Nomad', described the Australian plague locust and its behaviour, discussed research from the early days of settlement to the present, and current ideas on control. There was an excellent turnout and a very pleasant evening was enjoyed by all. Attendance at the traditional Christmas celebration and Notes and Exhibits in December was affected by bad weather. Those hardy members who got to the meeting were treated to a wide variety of topics. They included redback spiders in Japan, myxomatosis on Woody Island (near Fraser Island), bait traps for blowflies, scale insects and parasites, a demonstration of the behavioural software program 'The Observer for Windows, 3.0', and the second edition of 'Medical and Veterinary' by Emeritus Professor **D.S. Kettle**. The food was good too!

The Society would like to wish the Australian Entomological Society and all its affiliates a happy and successful New Year.

Judy KING
Representative Councillor

FASTS NEWS

The Australian Entomological Society is affiliated to the Federation of Australian Scientific and Technological Societies (FASTS) who are now providing regular feedback on their activities in promoting science in Australia, particularly in the political arena. To keep members aware of how our subscription to FASTS is being used we will have a page on FASTS news each edition. At its February meeting, the FASTS Board identified poor communication as a key issue in Science in Australia and this initiative is a step towards overcoming this problem.

Science and technology and the election.

FASTS was closely involved in promoting science in the election. We logged over 50 meetings, briefings, phone calls and visits with the Minister for Industry Science and Technology Senator Cook and Shadow Minister Hill and their officers in February alone. This has paid off. The Coalition science policy takes up a lot of the issues aired in the FASTS Policy Document. FASTS welcomed the fact that the Coalition policy was formally announced by Mr Howard - the involvement of political leaders in science and technology has been a rare event in recent years! In the same way Science Minister Cook was persuaded to take up the issue of inadequate career paths for young and middle-ranking scientists. He publicly promised a full ASTEC inquiry, as a forerunner to Government action.

FASTS was disappointed that we could not persuade Minister Cook to debate science policy with Senator Hill. Both sides agreed in principle to a debate which I would chair, but Minister Cook cited campaign commitments as his reason for pulling out. A media release from FASTS said he might have assigned this event a higher priority.

FASTS and the media

"Science a new vote catcher" headed a long article in the Financial Review of February 22. It reflects the higher profile S&T had in the election - and this is no accident. FASTS has worked hard to interest journalists in science policy stories. FASTS has appeared in New Scientist, The Age, Adelaide Advertiser, ABC Science Show, the Australian Higher Education Supplement, the Canberra Times, Search magazine and others in the last month.

Cooperation with other science policy groups

FASTS is building linkages with other groups concerned about science and technology policy. We have organised regular meetings of the top administrators of the Academies of Science and Technological Science, the Science Teachers Association, the Head of the Deans of Science at Australian Universities, the AV-CC and other groups. We organise and chair the meetings, which have already resulted in positive cooperation. The danger of working independently is that science groups will be picked off or (worse) ignored in the political and bureaucratic battlegrounds of Canberra.

The FASTS Web site

The FASTS Web site lists our policies, office bearers, constitution and list of Member Societies, with pointers to the pages of our Member Societies. The FASTS page is obviously valued by politicians as a location for science announcements, and they have been very quick to deliver material to the FASTS office! Our thanks to Professor Graham Johnston of Sydney Uni for making it all possible. The address is: http://bimbo.pharmacol.su.oz.au/fasts/fastshome.html

Board meeting

The Board considered longer term directions for FASTS at its February meeting and identified issues to tackle. Better communications with Members is one, and close second is the state of the treasury. FASTS is clearly underfunded.

Individual scientists pay the equivalent of a cappuccino a year to support FASTS and this is not enough to keep a national lobby group afloat! Innovative solutions are being devised.

Short items

a. The Industry Commission is calling for submissions to an inquiry into the medical and scientific equipment industries. Closing date 15 May 1996. Details from Ray Jeffery (Inquiry Director) on (03) 9653 2315

b. DIST has just released "Australian Business Innovation: a strategic analysis" by Kevin Bryant et al., a 94 page report. For this and other publications, contact Dr Kevin Bryant by fax on (06) 276 2188 or email KBryant@dist.gov.au

c. FASTS met with senior officers in DIST to discuss a FASTS proposal for a calendar of scientific events on the Web.

d. FASTS assisted the Australian Mathematical Sciences Council with its launch of Mathematical Sciences Review at Academy, and was thanked for "magnificent help".

Joe BAKER
President
FASTS

ELECTRONIC NEWS

Australian Entomological Society Home Page

The Society has its own home page which can be found at :

http://www/ex/ac/uk/~gjlramel/clublink.html

The site lists details of the membership and publications of the Society, including the Journal, *Myrmecia* and the Directory of South West Pacific Entomology. Details of the forthcoming New Zealand Conference are also listed and it is hoped these details will be updated regularly. Various other entomological Societies, at this stage primarily the British ones, are also detailed with membership details, contacts, etc.

Members are invited to browse and to offer suggestions for the types of information they would like to be able to access from the site.

The UK Systematics Forum

The UK Systematics Forum is pleased to announce the arrival of its Home Pages on the Internet. These pages provide information on the Forum's aims and objectives, activities and members of the committee as well as links to other relevant organisations and initiatives on the Web. In the near future the Pages will provide the base for the directory of UK Systematics Expertise and Current Research.

The Forum's URL is: http://www.nhm.ac.uk/uksf

Pages will be added and updated at regular intervals but meanwhile please direct any comments/suggestions to:

Emma Watson
UK Systematics Forum,
c/o The Natural History Museum
Cromwell Road, London, SW7 5BD
Tel: 0171 938 9522 Fax: 0171 938 9531
Email: ew@nhm.ac.uk

Museum Home Page URL:
HTTP://www.nhm.ac.uk/index.html

COMING EVENTS

START SAVING NOW!

Australian Entomological Society
27th AGM and SCIENTIFIC CONFERENCE
Lincoln College, Christchurch
New Zealand
22 - 27 August 1996
in conjunction with
The Entomological Society
of New Zealand

The 27th Scientific Conference of the Australian Entomological Society will be a joint conference with the Entomological Society of New Zealand at Lincoln College, Christchurch 22-27 August 1996. Committees have been formed both in New Zealand and Australia to initiate planning. Approaches are being made both to FASTS and SCARM to assist members to attend, particularly student members.

The 7th Arbovirus Research in Australia Symposium/ 2nd Mosquito Control Association of Australia Conference.

Ocean Blue Resort, Surfers Paradise, Gold Coast, Australia, 25 - 29 November 1996.

The conference centres around arboviruses of humans and livestock and aims to highlight topical issues such as emerging diseases and recent innovations in vector management. The 5 day program will cover entomological issues such as vector biology, mosquitoes as vectors, vector surveillance, vector control innovations and environmental impacts, and waste water management in the first 2 days; plenary sessions dealing with broad topics of global relevance, such as emerging diseases, will be held on the 3rd day; and days 4 and 5 will cover the epidemiology, virology, diagnostic, clinical medicine and molecular biology aspects of arboviruses.

For further information and registration forms contact the Convenor:

Brian Kay,

Queensland Institute of Medical Research,
PO Royal Brisbane Hospital, QLD. 4029.
Phone: 07- 3362 0350
Fax: 07- 3362 0106
E-mail: lyndam@qimr.edu.au

INTERNATIONAL WORKSHOP ON *HYPSIPYLA* SHOOTBORERS IN MELIACEAE

FIRST CIRCULAR

Kandy, Sri Lanka

20-23 August 1996

Topics to be covered in this workshop include Taxonomy and susceptibility of Meliaceae to *Hypsipyla* spp., Taxonomy and biology of *Hypsipyla* spp., Population ecology of *Hypsipyla* spp., Assessment of control options for *Hypsipyla* spp., Economic analysis of *Hypsipyla* control in plantations, and Identification of research priorities and recommendations.

The workshop is being organised by CSIRO Division of Entomology, Queensland Department of Primary Industries Forestry and Department of Zoology, University of Oxford. It is being supported by the Australian Centre for International Agricultural Research (ACIAR) and Overseas Development Agency (ODA).

For further information and a copy of the registration form, please contact:

Ms Manon Griffiths
c/- Queensland Forest Service
PO Box 631,
INDOOROOPILLY QLD 4068
AUSTRALIA
Tel: 61-7-3896-9778
Fax: 61-7-3896-9628
Email: griffith@qfslab.ind.dpi.qld.gov.au

Note: An expression of interest, giving your name, affiliation and full contact details, needs to be with Manon Griffiths **no later than 30 April 1996**.

NZ Plant Protection Society Conference

August 13-15th 1996

Nelson, New Zealand

Details: *Myrmecia* **31** (4): 39

Further information:

Dr Max Suckling
HortResearch
PO Box 51, Lincoln, New Zealand
Fax +64-3-3252946
ph +64-3-3256351 3380# (direct dial)
Email: sucklingm@hort.cri.nz

9TH INTERNATIONAL AUCHENORRHYNCHA CONGRESS

Sydney, Australia

17-21 February 1997

The Second Circular and Registration Form for this conference is now available. All subscribers to TYMBAL, the Auchenorrhyncha Newsletter, will be sent a copy, as will all respondents to the First Circular. Copies can also be obtained from:

Australian Convention and Travel Services
GPO Box 2200
Canberra ACT 2601
Australia
Ph: (61-6)(06) 257 3299
Fax: (61-6)(06) 257 3256

Further information:

Dr M.J. Fletcher
NSW Agriculture
PMB 10
RYDALMERE NSW 2116
email: fletchm@agric.nsw.gov.au

ELEVENTH AUSTRALIAN WEEDS CONFERENCE

MELBOURNE UNIVERSITY

30th Sept - 3rd Oct. 1996

Details: *Myrmecia* **31**(4): 39

The conference is being organised by the Weed Science Society of Victoria.

Further information:

Chris Knight
Promotions Officer
Australian Weeds Conference
PO Box 987
FRANKSTON VIC 3199
Phone: 03 96192603
Fax: 03 96191756

Xth INTERNATIONAL CONGRESS OF ACAROLOGY

6-10 July 1998
Canberra, Australia

Further Information:
Dr Bruce Halliday
Principal Research Scientist (Acarology)
CSIRO Division of Entomology
GPO Box 1700
CANBERRA ACT 2601
AUSTRALIA
Phone: (06) 246 4911
Fax: (06) 246 4000
Email: bruceh@ento.csiro.au

ADVANCE NOTICE

Fourth Conference of the International Society of Hymenopterists.

Canberra, AUSTRALIA
6-11 January 1999

Following the highly successful 3rd Conference held in 1995 at the University of California, Davis, the 4th Conference will be held at the Australian National University, Canberra. It will follow shortly after the 13th International Congress of the IUSSI (International Union for the Study of Social Insects) to be held in Adelaide, 29th December 1998 to 4th January 1999.

Further information will be available at the end of this year from the Organising Committee, convened jointly by Drs Ian Naumann and Andy Austin.

The Conference address and contact is:
4th Conference of the International Society of Hymenopterists,
c/o CSIRO, Division of Entomology,
P.O. Box 1700
Canberra, ACT 2601
AUSTRALIA
fax: 61-6-246.4264
email: iann@ento.csiro.au.

ANIC TRAINING COURSES

The Australian National Insect Collection, CSIRO Division of Entomology will be conducting the following training courses during 1996 and 1997.

ANIC Technical Training Course

9-13 September 1996

For technicians involved in the collection, preservation and curation of entomological specimens for research purposes. Course Fee: $500

Thrips Identification Course

21-25 April 1997

A five-day course on the biology and identification of thrips will primarily familiarise participants with basic methods of collecting, slide preparation and identification. The course will also provide an introduction to thrips biology, trapping for pest management and DNA techniques for studying variation within and between species. Course Fee: $1,000

Whiteflies Identification Course

3-6 December 1996

An identification course on whiteflies (HEM: Aleyrodidae) and their natural enemies. The course will be conducted by experts from the ANIC and CABI's International Institute of Entomology (IIE). The course will cover basic biology and identification of whiteflies with particular emphasis on pest species and the Australian fauna. Course Fee: $1,000

All these courses will be held at the Division of Entomology in Canberra. Course fees do not include food and accommodation. Reasonably priced accommodation can be arranged at the participant's request.

Information from: The Collection Manager
ANIC, CSIRO Division of Entomology
GPO Box 1700
CANBERRA ACT 2601, Australia
Phone: (06) 246 4036
Fax: (06) 246 4000
Internet: geoffc@ento.csiro.au

SOUTHERN CONNECTION

II CONGRESS
"Southern Temperate Biota and Ecosystems: Past, Present and Future."

6-11 January 1997

Chile, South America

Details: *Myrmecia* **31**(4): 40

Further details:
Ignacio Fuenzalida
Local Organiser
II Southern Connection Congress
Depto. de Biologia - Facultad de Ciencias
Universidad de Chile, Casilla 653
Santiago, CHILE
Fax: 65 (2) 271 2983
Email: Southern@abello.dic.uchile.cl
or Botanica@abello.dic.uchile.cl

Please include your name, postal address, fax, telephone number and email address as appropriate.

A SPECTRUM OF MICROBIOLOGY
International Meeting and Exhibition of the Australian and New Zealand Societies for Microbiology

CHRISTCHURCH, NEW ZEALAND

29 September - 4 October 1996

Details:
Tour Hosts Pty Ltd
Phone: (61-2) (02) 262 2277
Fax: (61-2) (02) 262 3135 or 262 2323
Email: TourHosts@tourhosts.com.au

INTERNATIONAL CONFERENCE "TECHNOLOGY TRANSFER IN BIOLOGICAL CONTROL: FROM RESEARCH TO PRACTICE"

Montpellier, France

9-11 September 1996

Details: *Myrmecia* **31**(3): 26

For further information contact:
F. Bigler, Secr. General IOBC
Swiss Federal Research Station
Reckenholzstr. 191
8046 Zurich
Switzerland.
Fax: (33) 67 04 75 99

XX INTERNATIONAL CONGRESS OF ENTOMOLOGY
Florence (Italy)

August 25 - 31, 1996

Palazzo dei Congressi

Information and copies of the registration form can be obtained from:
Organising Secretariat O.I.C.
Via A. La Marmora, 24
50121 Florence
ITALY
Tel. ++39-55-5000631
Fax ++39-55-5001912

XIVth International Congress for Tropical Medicine and Malaria

"New Goals for the 21st Century"

Nagasaki Japan, 17-22 November 1996

The First Circular of the above Congress is now available. Further information is available from:
Ms S. Tominaga
XIVth ICTM Secretariat
c/- The Institute of Tropical Medicine
Nagasaki University

1-12-4, Sakamoto
Nagasaki, 852 JAPAN

NOTICES

WANTED!
Back issues of *Invertebrate Taxonomy*

If anyone has issues of *Invertebrate Taxonomy* that they no longer need and wish to sell them please contact Andy Austin on 08-303 7265

METAL MAGIC

Peter Misic has a business called Metal Magic electroplating non-metallic objects. He plans to specialise in the plating of insects and natural flora for jewellery and display purposes and wishes to establish contact with members who could supply material for his business. Any member who feels he/she can offer assistance to Peter, or who is interested in his products, can contact him at:

Metal Magic
Peter Misic
PO Box 97
Sebastopol Vic 3356
Tel: 053 420465

CABINETS FOR SALE

Four rosewood stained timber veneer cabinets on a matt black base are available for purchase. The butterflies previously housed in the cabinets were donated to the Qld Museum last year. Each cabinet measures 750 (high) x 723 (wide) x 625 (deep) mm and has 10 individually fitted solid meranti glass topped drawers 685 x 610mm with an internal height of 40mm.

They are custom built, functionally designed and made to furniture standards. They would now cost over $1500 each to make.

COST: $2000 for the four or $700 each.
Contact: James Baker, 8 Petrie Tce, Brisbane 4000
Tel: 07 3368 3228
Fax: 07 3368 3224

The Australian Entomological Society Phil Carne Prize 1996

A prize for scientific writing to foster high quality entomological research in young scientists

The Executive takes pleasure in calling for applications for The Australian Entomological Society's Phil Carne Prize for 1995.

The name of the Prize celebrates contributions made by Dr Phil Carne to the science of entomology and to The Australian Entomological Society.

The Prize is open to any student, enrolled full-time or part-time, who is an undergraduate, honours or postgraduate student whose entry has not been submitted prior to 30 June 1996.

Entrants do not have to be members of The Australian Entomological Society.

Entries for the prize should be in the form of a scientific paper, using the subheadings: Summary (not more than 100 words), Introduction, Materials and Methods, Results, Discussion, Acknowledgements, References. Entries should be double-spaced, typed and must not exceed 2500 words in total.

Three copies of entries need to be submitted to the Secretary of the Society by the closing date of 24 May 1996. Please provide stamps or a postal order to cover cost of returning entries, if required.

Entries are to be the sole work of the entrant, apart from the normally accepted input of an academic supervisor. Thus, entries should bear only the name of a single entrant.

Each entry is to be accompanied by a completed Application Form (see over)

- Entries will be reviewed by a Selections Committee to be appointed by the President of the Society.
- The winner will be invited to present the winning paper at the Society's 27th Annual General Meeting and Scientific Conference to be held at Lincoln University, Christchurch, New Zealand, 22-27 August 1996.

The prize will be in the form of cash remuneration to the value of $300, free conference registration, accommodation and return economy airfare to the Annual Conference, and presentation of a plaque.

The Australian Entomological Society
Phil Carne Prize 1996
Application Form

Please find attached three copies of the scientific paper for consideration for the 1996 Phil Carne Prize

Name: . . . .

Contact Address: . . . .

Telephone No. . . . . Facsimile No. . . . .

Professional Qualifications . . . .

. . . .

Title of Entry . . . .

Origin of Entry:

. . . .

Degree Institute Part/Full time

Name of First Supervisor . . . .

Endorsement of Head of Department (signature) . . . .

I declare that this paper is my work and has not been submitted for publication prior to 30 June 1996.

Signed . . . .

Dated . . . .

Return completed form with three copies of entry, by 24 May 1996 to:

Dr Gary Taylor
AES Honorary Secretary
c/- Dept of Crop Protection
Waite Campus, University of Adelaide
Glen Osmond, SA 5064

call for
applicants

THE AUSTRALIAN ENTOMOLOGICAL SOCIETY

RESEARCH GRANTS 1996

'Grants to encourage the advancement and dissemination of entomological knowledge, particularly in relation to Australian insects and allied forms'

The Executive takes pleasure in calling for applications for The Australian Entomological Society's Research Grants for 1996

Total funds available will be in the order of $3000. Applications may be submitted for such items as travel, equipment or technical support.

The grants are primarily for small, short - term projects and will be available only to financial members of the Society of at least 12 months standing. Groups will be eligible provided that the primary researcher is a member.

Applications may be for any amount up to $1000, but remember that small, short-term projects which enable a diverse range of work to be funded may be favoured.

Three copies of your application need to be submitted to the Secretary of the Society by the closing date of 5 July 1996. Please provide stamps or a postal order to cover the cost of returning applications, if required.

The President of the Society will appoint and convene a Selection Committee to allocate and administer the grants. Successful applicants will be announced at the Society's Annual General Meeting on 24 August 1996.

A report to the Executive in a form suitable for publication in *Myrmecia* will be required by the end of 1997.

THE AUSTRALIAN ENTOMOLOGICAL SOCIETY

RESEARCH GRANTS 1996

APPLICATION FORM

Please find attached three copies of my submission for an AES Research Grant for 1996

Name: . . . .

Contact Address . . . .

Telephone number: . . . . Facsimile number: . . . .

Title of Entry . . . .

The following details are required in the application:

- Background
- Objectives
- Methodology
- Expected outcomes
- Detailed budget, including resources (eg. vehicle, lab, equipment) provided by the applicant or from other sources
- Expected duration and time devoted to the project

Return completed form with three copies of application, by 5 July 1996, to:

Dr Gary Taylor
AES Honorary Secretary
c/- Dept of Crop Protection
Waite Campus, University of Adelaide
Glen Osmond SA 5064

Call for Nominations for the 1996 Ian Mackerras Medal For Excellence in Entomology

THE IAN MACKERRAS MEDAL

The Executive invites nominations of Society members for the sixth award of the Ian Mackerras Medal, in 1996.

Those wishing to nominate a member for the award of the Medal should bear in mind that:

(a) Only financial members of the Society who will be under the age of 50 years in August 1996 are eligible for nomination.
(b) A candidate must be nominated by not fewer than two financial members of the Society.
(c) Proposers of a candidate shall, not less than three months prior to the Annual General Meeting in August 1996, provide the Secretary with a detailed statement including the candidate's name, date of birth, academic distinctions, relevant appointments and membership of societies, a list of the candidate's more important publications, and a statement of not more than 500 words explaining why the candidate merits this distinction in entomology.
(d) A Selection Committee for award of the Medal will consist of the President (Convenor) and four senior members of the Society. Nominees or signatories to a nomination are barred from serving on the Selection Committee.
(e) Should the Committee recommend to the Executive that an award be made, the name of the recipient will be announced and, if possible, the Medal presented, during the 27th Annual General Meeting to be held at Lincoln University, Christchurch New Zealand, 24 August 1996.

Nominations are required to be with the Secretary not later than 24 May 1996.
Dr Gary Taylor, AES Secretary, c/o Dept of Crop Protection, Waite Campus, University of Adelaide, PO Glen Osmond SA 5064.

THE AUSTRALIAN ENTOMOLOGICAL SOCIETY INSECT ILLUSTRATION COMPETITION

1996

'A Competition to encourage and recognise high standards of entomological illustration'

The Australian Entomological Society invites unpublished entries to this competition which will be judged and displayed at the Society's Annual General Meeting and Scientific Conference to be held at Lincoln University, Christchurch, New Zealand, 22-27 August 1996.

The competition is open to members and non-members of the Society.

Entries, up to three per entrant, must be either black and white or coloured, whole-body (dorsal or lateral views) taxonomic illustrations of insects or allied forms, such as shown in *The Insects of Australia*. The mounted illustrations should not exceed 21 x 30 cm (approx. A4 size) and must be suitable for reproduction after reduction of 50%. Postal entries must be carefully packed and include stamps or a postal order sufficient to cover the cost of return postage, where necessary.

Entries will be reviewed by a Judging Committee. The Society shall have the right to display selected works in public and to reproduce the illustrations, with appropriate acknowledgement, on Society goods which it sells, and in magazines, for a fee.

Entries can be posted to the Convenor or delivered at registration.

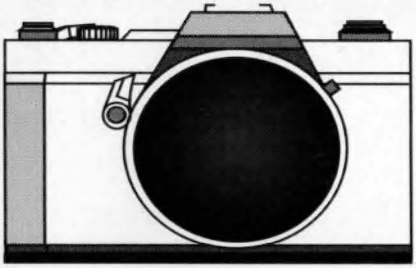
Categories: Student Section (1) Colour (2) Black and White
Open Section (1) Colour (2) Black and White

Prizes in each category will be: First $300, Second $150, Third $50

Each entry is to be accompanied by the following information:
*Name of entrant, *Postal Address, *Current enrolment details (if a student), *Category of entry/entries, *Scientific name of Insect.

Forward entry/entries and above information to: Dr R V Gunning,
Convenor of AES 26th Annual General Meeting, C/o Agricultural
Research Centre, PMB 944, Tamworth NSW 2340

THE AUSTRALIAN ENTOMOLOGICAL SOCIETY



INSECT PHOTOGRAPHIC COMPETITION

1996

'A competition to encourage photographic expertise in the field of entomology'

The Australian Entomological Society invites unpublished or not previously displayed entries to this competition which will be judged and displayed at the Society's Annual General Meeting and Scientific Conference to be held **at Lincoln University, Christchurch, New Zealand, 22-27 August 1996**

The competition is open to members and non-members of the Society.

Entries (prints only) cannot be greater than 20 x 25cm, with the name and address of the entrant on the back. Postal entries must be carefully packed and include stamps or a postal order sufficient to cover the cost of return postage, where necessary.

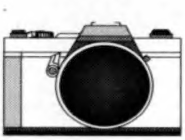
Categories:
Black-and-White and Colour
* Insects,
* Micrographs
* People in entomology

Entries will be reviewed by a Judging Committee. The Society shall have the right to display selected works in public and to reproduce the photographs, with appropriate acknowledgement, on Society goods which it sells, and in magazines, for a fee.

Entries can be posted to the convenor or delivered at registration.

Prizes in each category will be: First $200, Second $100, Third $50

Each entry is to be accompanied by the following information:
* Name of entrant, *Postal Address,
* Category and title of entry/entries, *Scientific name of insect, where applicable.



THE AUSTRALIAN ENTOMOLOGICAL SOCIETY INC.

FORM OF NOMINATION FOR MEMBERSHIP

To be returned to:
Dr G. Taylor, AES Secretary, c/o Dept. of Crop Protection
Waite Campus, University of Adelaide, Glen Osmond SA 5064

We the undersigned

Proposer: ....
(print name here) (signature)

Seconder: ....
(print name here) (signature)

being financial members of the Society, propose the following for membership of The Australian Entomological Society Inc.:

Title .. Initials .. Given Name .... Family Name ....

of (Address): ....

....

Tel: .... Fax: ....

Email: .... Degrees, etc: ....

Occupation or Appointment: ....

Interests, experience, and publications in entomology for publication in the News Bulletin *Myrmecia* (please attach brief resumé):

I accept nomination and undertake if elected to abide by the rules of the Society, and to pay annual subscriptions by the date prescribed.

Signature: .... **Date:** ....

For 1996, new student/retired members - $22.50; new full members - $45.00. **Payment with nomination required.**

....

(EXECUTIVE USE ONLY)

Nom. received: .... Nom. considered at meeting: ....

Payment received: .... Elected at meeting: ....

Membership type: .... Applicant advised: ....

REGIONAL COUNCILLORS

Queensland
Dr T.A. Heard
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Australian Capital Territory

(vacant)

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GPO Box 990
Darwin NT 0801
Ph (089) 89 2211
Fax (089) 89 2181

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Rydalmere NSW 2116
Ph (02) 683 9777
Fax (02) 630 4475

Entomological Society of Victoria
Mr P. Carwardine
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Malvern, Vic 3144
Ph (03) 571 8958 (AH)

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